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(21)Application number : 07-035467

(71)Applicant : MITSUBISHI ELECTRIC CORP

(22)Date of filing : 23.02.1995

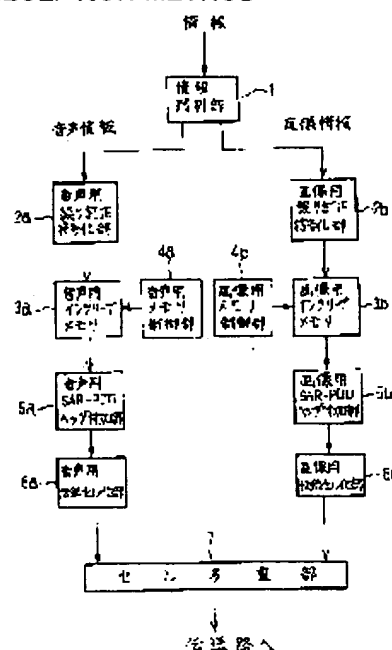
(72)Inventor : SAITO MIGAKU

## (54) INTERLEAVE DEVICE, INTERLEAVE METHOD, DE-INTERLEAVE DEVICE, DE-INTERLEAVE METHOD, TRANSMITTER, RECEIVER AND RECEPTION METHOD

(57)Abstract:

PURPOSE: To reduce the delay time caused by interleave processing by setting an interleave matrix size depending on the kind of information to be sent to conduct interleave processing.

CONSTITUTION: An information discrimination section 1 discriminates kinds of generated information. An audio error correction coding section 2a conducts error correction coding of received audio information. An audio interleave memory 3a conducts interleave processing based on an interleave matrix size in response to kinds of the information according to a command signal by an audio memory control section 4a. An audio SAR-PDU header addition section 5a divides the information subject to interleave processing into information blocks and writes the information representing a head of the interleave matrix. An audio transmission cell processing section 6a provides an output of the information to a cell multiplexer section 7 as an audio transmission cell. Furthermore, image information is processed similarly to the audio information and an image transmission cell processing section 6b provides an output of the information to the cell multiplexer section 7 as an image transmission cell.



## LEGAL STATUS

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(21)Application number : 05-139676

(71)Applicant : FUJITSU LTD

(22)Date of filing : 11.06.1993

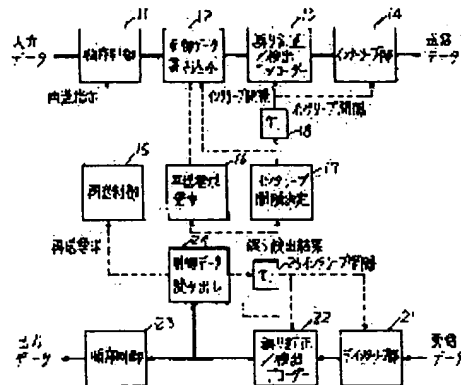
(72)Inventor : FUJINO SHINJI

## (54) DATA COMMUNICATION PROTOCOL FOR MOBILE COMMUNICATION

## (57)Abstract:

PURPOSE: To realize a data communication protocol for mobile communication with excellent communication quality by extending the length of a data string of packets sequentially sent from a sender side when a receiver side detects the code error of a data string of a certain length.

CONSTITUTION: Received data whose length is  $\tau/4$  from a communication line are processed to restore the time sequence at a de-interleave section 21 to provide an output to an error correction/error check decoder 22. The decoder 22 gives the result of error correction to a sequence control section 23 and a control read section 24. The read section 24 reads a signal representing an interleave interval  $\tau_1$  and a re-transmission request signal in a data string of a received packet. The read signal with an interval  $\tau_1$  is stored in a memory and reflected on a succeeding interleave interval. When the decoder 22 detects code error, an interleave interval decision section 17 of a sender side selects the succeeding interleave interval of  $\tau/2$ ,  $\tau$ , or  $2\tau$  longer than a preceding interval  $\tau/4$ . The result is informed from the sender side of an opposite equipment.



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